

ABSTRACT OF THE DISCLOSURE

An induction heating device for inductively heating an object to be heated which is formed of conductive material has a holder. The holder is positioned outside the object.

5 The device has an exciting coil for inductively heating the object. The exciting coil is supported by the holder. The exciting coil is composed of a plurality of turns of conductor forming a layer, which is positioned along the object. The device also has a demagnetizing coil which is
10 positioned along the layer of the exciting coil. In the demagnetizing coil, a back electromotive force is induced in accordance with a magnetic field produced by the exciting coil, so as to cancel the magnetic field. Stability in the temperature control for the object such as
15 a heating roller can be improved by effective function of the demagnetizing coil. The device can be miniaturized and configured at low cost.